

**AMENDMENTS TO THE SPECIFICATION**

Applicants respectfully request that the following paragraph be added to the specification after paragraph 81:

[0081.1] Finally, the invention's method for identifying fluorescing, luminescing and/or absorbing substances in the analysis of samples may further comprise carrying out a spectral weighting between a plurality of detection channels, carrying out a summation of the weighted channels of the signals of the detection channels, and carrying out a summation of the detection channels. A weighting curve may be a straight line. Further, the signals of the detection channels may be converted and digitally read out, and the weighting and summation may be carried out digitally in a computing device. Further, the weighting and summation may be carried out with analog data processing by means of a resistor cascade. The resistors and the weighting curve may be adjustable.